Work Orde <i>May-13-13 1:14</i>		808		*101	1808*		_				Page-	j
Revision ID:	D3215-043 Belt Assembly		/	Accept	*N90	೧೧ 4೧	100)* s	etup Star Stop	ı Vı,	S1* S2*	T '.'
Start Date: Required Date: Reference:	5/13/13 6/07/13	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Iter Custome				•			
Approvals:	Process Plan	ı: CL	Date: _ 3/05/ \/ Date:	Tooling: SPC (Y/N):		Date:		R	un Star Stop	 	R1* R2*	
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool II	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
Draw Nbr	Revi	sion Nbr										
D3215	Rev I	D										
*100 *100 Purchasing Purchasing		Ship to Tul	as per Dwg D3215	0.00 0.00 afety Systems								
*110 *110* Packaging Packaging		Receive & Inspect for D Memo Ensure cert	Damage & Mat'l Certs	0.00 0.00 ned	e e e e e e e e e e e e e e e e e e e	·			f 4.] 3/5/0	3(7
120 *120* QC		QC6- Inspect dimension Memo	ns to drawing	0.00				4				
Quality Control				12	2 ^ 2							

NCR: Y	⁄es	/ No				WORK ORDER NON-	100	VFORM	MANCE / UP	DATE			4
											QA Closed:	Date	<u>:</u>
Mork O-d						DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Work Orde	er.					Rework	1		Skid-tube	Crosstube	1	Water Jet	Engineering
Part N	No.					Scrap	1		Machining	Small Fab	Pro	d. Eng. Coor.	Quality
	•					Use-as-is	1		noforming	Finishing		re/Packaging	Other
NCR N	No.					Work Order Update]		Large Fab	Composite]	Supplier	
Root					Descri	ption of work order update		Initial	Act	tion	Sign &		1
Cause		Date	Step	Qty	(or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data	Ш											•	
Equip/Tooling													
Operator	Ш												
Material													
Setup	Ш		ŀ					İ					
Other	Ш												
Process			Ì										
Supplier													
Training	Щ												
Unapproved	Ш						ļ						
			 				AUL	T CATE	GORY				
Landi		l				General		7		_	7	г	
	-	Bending			<u> </u>	Bend	_	Grain		_	Ovalized	<u> </u>	Pressure/Forced
	\vdash	Centre No	ot Conce	ntric to	o/s	BOM/Route	ļ	Hardwa		<u> </u>	Over/Under	F	Temperature/Cure
	-	Cracks				Broken/Damaged	_	4	on Incomplete	ļ	Part Incorred	F-	Weld
	-	Crushed/	Crimped			Burrs		4	ions Incomplete/I	Jnclear	Part Lost/Mi	ssing _	Wrong Stock Pulled
	\vdash	Cuffs				Contamination	_	Mainte			Part Moved		
	-	Heat Trea				Countersink		Mislabe		<u> </u>	Positioned V	· · ·	
	-	Inspectio	•	Tube	<u> </u>	Cut Too Short		Misread	İ		Power Loss/	Surge	Other
		Ripples in	Bend		<u> </u>	Drill Holes	L	Offset					
İ		Torque W	/aves in E	xtrusio	ո	Drawing	1	Out of (Calibration				

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence
Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Orde May-13-13 1:14		1808		*101	1808*							Page :	2
Item ID: Revision ID: Item Name:	D3215-043 Belt Assembly			Accept	*N900	040	100	* 5	Setup	Start Stop		S1* S2*	
Start Date: Required Date: Reference:	5/13/13	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Item I Customer:	D:					14.		
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):	<u>, , , , , , , , , , , , , , , , , , , </u>	nte:		F		Start Stop		R1*	
Sequence ID/ Work Center II 130 *130*		Operation Description Identify as per dwg & Ste		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reje Qty		Reject Number	R2* Insp. Stamp	; ; ,
Packaging Packaging		Мето		0.00							,	13-4	<u>;</u> —
140		QC21- Final Inspection -	· Work Order Release	0.00					_	_	, _<	·	1
*14 ∩ *		Memo		0.00				MU	Σ <u>'</u>	17-c	16-0	7	-

Memo

Quality Control

RLB-OL-H

												DQA:	Dat	e: _	
NCR: Y	'es	/ No					WORK ORDER NON-C	COI	NFORM	MANCE / UP	DATE	OA: Classada			-
												QA Closed:	Dat	e:	
Nork Orde	r:					ļ	DISPOSITION				AGAINST D	EPARTMENT	/PROCESS		
	-		_			1	Rework	1		Skid-tube	Crosstube		Water Jet		Engineering
Part N	lo.					١	Scrap		ſ	Machining	Small Fab	Pro	d. Eng. Coor.		Quality
	•					1	Use-as-is	1	Therm	noforming	Finishing	Rec/Stor	e/Packaging		Other
NCR N	lo.					ı	Work Order Update			Large Fab	Composite		Supplier		
Root			_	_	Desc		tion of work order update	1	Initial		tion	Sign &			
Cause		Date	Step	Qty		0	r Non-conformance	Ch	ief Eng	Desci	ription	Date	Verification	1	QC Inspector
oc/Data	_							1						l	
quip/Tooling	4												!	ı	
perator	\dashv												;		
Material								ľ							
etup Other	\dashv														
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				· ·			F	AUL	T CATE	GORY				·	
Landir	ng G	ear					General		_			_	_		
		Bending					Bend		Grain			Ovalized	Ĺ		Pressure/Forced
		Centre No	t Concer	ntric to (D/S [BOM/Route		Hardwa	re		Over/Under	tolerance	_	Temperature/Cure
		Cracks					Broken/Damaged	L	Inspecti	on Incomplete		Part Incorred	ct [Weld
		Crushed/0	Crimped				Burrs		Instruct	ions Incomplete/l	Unclear	Part Lost/Mi	ssing [Wrong Stock Pulled
		Cuffs			1		Contamination		Mainte		_	Part Moved			
	-	Heat Trea					Countersink		Mislabe	led	<u> </u>	Positioned V			
	-	Inspection	-	Tube			Cut Too Short	_	Misread	I	L	Power Loss/	Surge		Other
		Ripples in					Drill Holes	<u>_</u>	Offset						
		Torque W			י	_	Drawing	Ŀ	4	Calibration					
		Turning S	annanca			1	Finich	1	IOut of S	equence					

Outside Dimensions

Wave/Twist in Tube

Folio

May-13-13 1:14:41 PM

Work Order ID:

101808

Parent Item:

D3215-043

Parent Item Name:

Belt Assembly

Start Date: 5/13/13

Required Date: 6/07/13

Start Qty: 4.00

Required Qty: 4.00

Comments:

IPP A03.10.28New IssueKJ/RF

IPP B 07.06.12 ecn 940 EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3215-043P		Purchased	No			110	Each	0.0000	1	4	10/868	A	
D3215-3 101428 Webbing Tidy		Manufactured	No			100	Each	0.0000	2	CX 13) <u>X</u>	8:
D3216-1 ★ Fitting		Manufactured	No			100	Each	4.0000	2	8	CX1=	3/05/3	9
D3216-3 4 Fitting		Manufactured	No	Location ST034 9499	93	Loc Oty 4 4 100	<u>Lo</u> Each	3.0000	1	B	4/B1a	886	
				Location ST034	74	Loc Oty 3	<u>Lo</u>	e Code					,

B101887

CX13/05/30

										DQA:	Date:	
NCR: Y	es / No				WORK ORDER NON-C	100	NFORM	MANCE / UP	DATE			•
	•									QA Closed:	Date:	
Work Orde	ıř.				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part N	lo.				Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	-1	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descri	ption of work order update		nitial	Ac	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data												
Equip/Tooling		'		i I							-	
Operator						l						`
Material		-				ļ						
Setup												
Other					•							
Process					-							
Supplier					<i>:</i>							
Training					; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;							
Unapproved					,							
**********					to the state of th	AUL	T CATE	GORY	N C M			
Landii	ng Gear	340.	284.v		General Bend	_				- winds the material	and the second	ternalitimatic was a
	Bending		60		Bend & C		Grain			Ovalized	1	Pressure/Forced
	Centre N	ot Conce	ntric to	o/s	BOM/Route	L	Hardwa	re	`	Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorred	t	Weld
	Crushed	/Crimped			Burrs		instruct	ions Incomplete/	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination		Mainte	nance		Part Moved		
	Heat Tre	at			Countersink		Mislabe	led		Positioned V	Vrong	_
	Inspection	on Strip ir	1 Tube		Cut Too Short		Misread	i		Power Loss/	Surge	Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

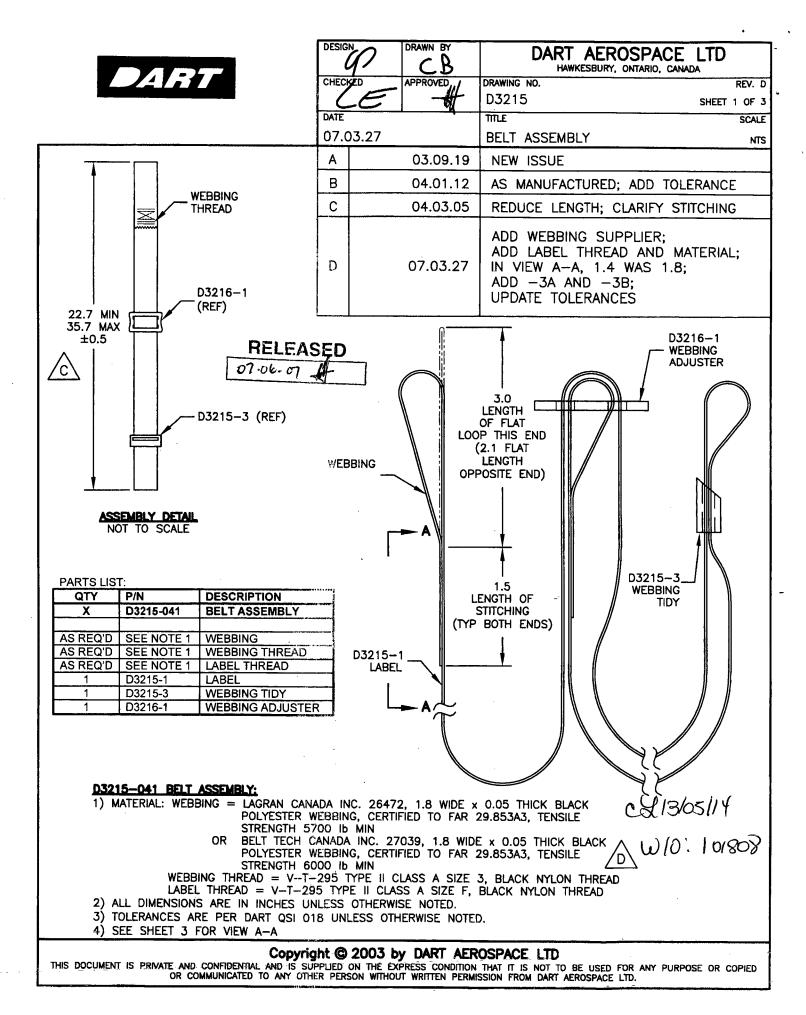
Torque Waves in Extrusion

Drill Holes

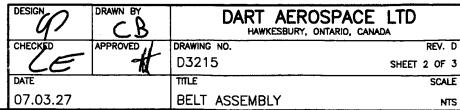
Drawing

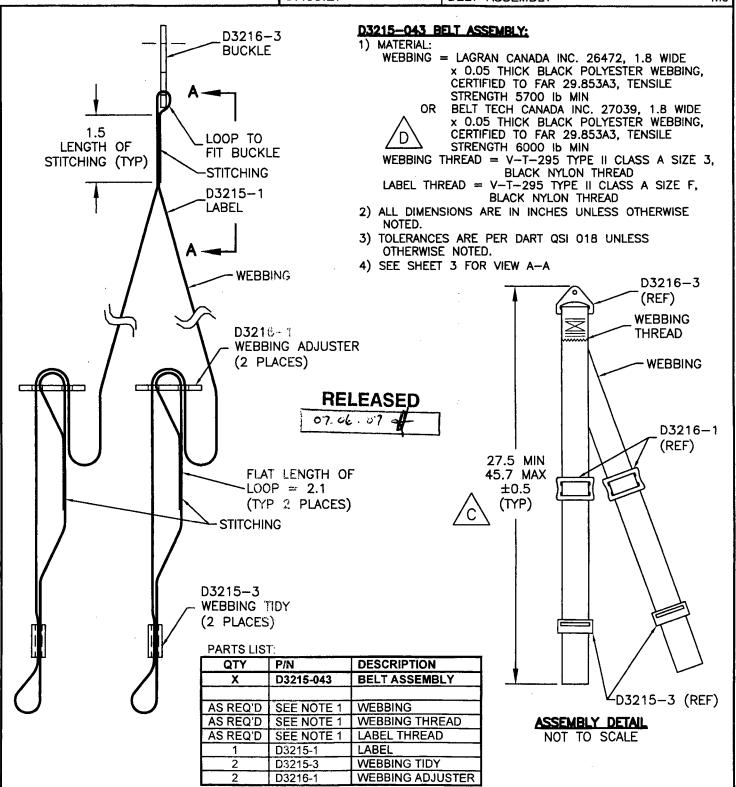
Finish

Folio









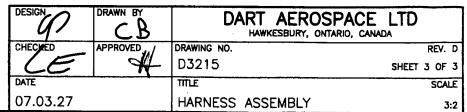
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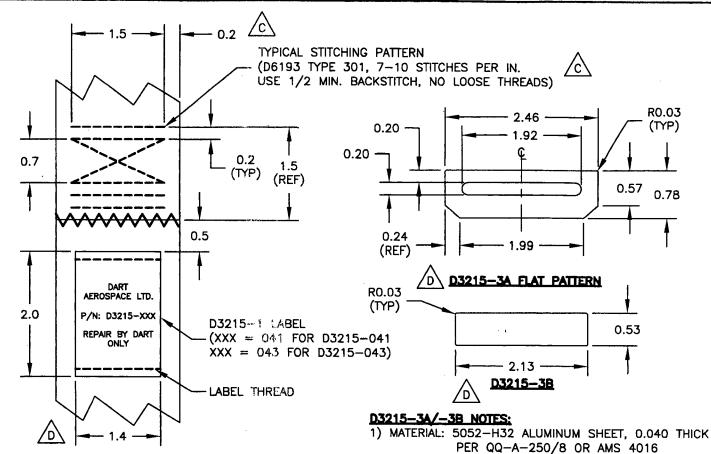
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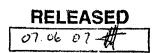


D3215-1 LABEL:

- 1) MATERIAL: WHITE TYVEK OR
 WHITE POLYESTER WHICH MEETS FMVSS 302
- 2) USE 1/8 BLACK LETTERING

VIEW A-A

3) CENTER ON BELT WIDTH



0.19 D3215-3A BEND R0.03 x 90° (2 PLACES) D3215-3B 2X 2X

(REF DART SPEC. M5052H32S.040)

GENERAL NOTES:

- 1) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

D3215-3 NOTES:

1) WELD PER DART QSI 004

2) BEND D3215-3A PER D3215-3

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT BLACK SANDTEX (4.3.5.7)
PER DART QSI 005 4.3

D3215-3 WEBBING TIDY

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Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO19931

Purchase Order Date 5/21/2013 PO Print Date 5/21/2013

Page Number 1 of 1

Order From:

TULMAR SAFETY SYSTEMS 1123 CAMERON ST

HAWKESBURY, ON K6A 2B8

CA

Contact Name

Vendor Phone

613 632 1282

Vendor Fax

513 632 2030

Vendor Account Nbr

Buyer

Brigitte Golden

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms Currency Net 30

CAD

FOB

Destination-Collect

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

VC-TUL001

CANADA

Line Nbr Reference

D3215-043P

Revision ID

Description/ Mfg ID

Req Date/ Taxable Unit of Measure-

Req Qty/ Ship Method

Unit Price

Extended Price

Vendor Part Number

Harness Assembly

5/31/2013

Yes

4.00 Each

\$30.9500

\$123.80

Special Inst:

As per DWG: D3215 Rev: D

B101808

PO Total:

\$123.80

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required - YES

Change Nbr:

Change Date: 5/21/2013

PACKING SLIP

Tulmar Safety Systems Inc. 1123 Cameron Street Hawkesbury, ON K6A 2B8 CA

613-632-1282 Fax: 613-632-2030 MID: XOTULSAF1123HAW email: info@tulmar.com

Packing Slip No. 48251 Ship Date

31-May-13

Bill To:

Dart Aerospace 1270 Aberdeen Street

Hawkesbury, ON K6A 1K7. Canada

Ship to:

Dart Aerospace

1270 Aberdeen Street

Tel: 613-632-5200

Hawkesbury, ON K6A 1K7. Canada

Order number Sales order da 30420 22-May-13 PO number PO19931	CDART100		Account manager Helena Vandeweerd Shipping Terms FOB HAWKESBURY	
(Item No: Description	Quantity ordered	UOM (2ty Shipped/Returned	Quantity on back order
938	4	EA ·	4	
elt Ass'y,/2" wide, black Webbing rawing No: D3215 (P/N D3215-043) WG Rev: D				
ot No: BATCH0000000023 Qty: 4		•		<i>f</i>
Shipper Old Ass	and the same of th	N 1998	and the state of t	MAY 31 2013

2	ertii	ficate	of Co	nformance

Shipper

See Certification Enclosed

Date:

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request. If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 245.

Authorized Inspector

MAY 3 1 2013 Date:

Belt-Tech Products Inc.

Certificate of Compliance No: 56 412

Page:

Date :2010-10-22 -Time: 13:31:04

Pattern : 27039

Width

47.000

Dye lot No : 432674

Color

: CG008

BLACK

Meters

6 728.00

Warp Order:

Customer: TULMAR SAFETY SYSTEMS

Test Date:

2010/10/22

Legend: Y = Good - Pass

Customer Part Number 18440-00

N = Fail

Test Method	Date	Type of Test	Mt. C.			•		
FMVSS 209	2009/10/01	Width - no load (min)	Min. Spec.	Max. Spec.	Median	Test 1	Test 2	Test 3
SAE J 882		Thickness - original (mm)	46.000	48.000	47.930	47.840	47,970	47.930 Y
ASTM D-3775		Picks per cm	1.140	1.400	1.175	1.185	1,175	1.175 Y
FMVSS 209			7.000		7.200	7.200	7.200	7.200 Y
FMVSS 209	2009/10/01	Tensile - original (lbs)		20,000	6.310	6.310	6.120	6.640 Y
FMVSS 209		Tensile - hex-bar % of original	6,700.000		7,167.000	7,167.000	7,086.000	7,182.000 Y
AATCC TM 8	2007/01/01	Crocking "wet"	75.000		91.700	91.500	91.900	91.700 Y
AATCC TM 8		Crocking "dry"	3.000		4.000	4.000	4.000	4.000 Y
AATCC TM 107			3.000		4.500	4.500	4.500	4.500 Y
Specification			3.000		4.500	4.500	4.500	4.500 Y

Specification(s):

FMVSS 209 revised on 2008-10-01

FMVSS 302 revised on 2008-10-01

Comment(s)

This is to certify that this product conforms to the specification(s) mentionned above and the requirement(s) outlined in the and was tested at 22 \pm 3°C temperature and 45-55 % relative humidity. Not applicable for downgraded (second) material If this document is not signed, it is to be regarded as a non-controlled version

Tested by:

4.10-1403E (2010-03-31)



Canadian Sewing Supply Ltd. / Ltée – established / établie 1924

Manufacturers of sewing threads. / Wholesalers of elastics, Velcro, tapes, trimmings. Fabricants de fils à coudre. / Grossistes d'élastiques, Velcro, galons, garnitures.

16 September 2008

Tulmar Safety Systems 1123 Cameron Street Hawksbury, Ontario K6A 2B8

Att. Sandra Nadeau

CERTIFICATE OF COMPLIANCE

This is to certify that the items mentioned below, shipped to Tulmar Safety Systems by CANSEW INC. on 16 September 2008, have been produced in accordance with the requirements of Purchase Order no. 14743-00 of the same date:

★-Bonded Nylon CB207 – 20.05 lb, colour black, lot # 710805, meeting the requirements of specification V-T-295, Type 2, Class A, Size 3, 3 ply -Bonded Nylon CBB92 – 64.30 lb, colour OG-107, lot # 667896 and 587426, meeting the requirements of specification V-T-295, Type 2, Class A, Size F

Herene Schachter CANSEW INC.



American & Efird Inc. Post Office Box - 507 Mount Holly, NC -28120

Certificate of Compliance

Date: 3/23/2011

Mfg. Date:

3/27/2010

Lot Id: 705150 Quantity: 43

Product:

Tex 90 BONDED 'Z' NYLON FILAMENT Black AA 63002 16 OZ

Specification: A-A-59826 TPII CLA F BT92N4

Customer Order Number: 17499-00

Plys (Visual): 4

Customer: Tulmar Safety Inc.

Twist Direction: Z

Shipped To: Tulmar Safety Inc.

A&E Color: 63002 Black AA

Description: Bright, Continuous Multifilament Nylon, Melting Point >472F; Colorless Nylon Polymer Bond;

Polypropylene Spools

Characteristic	Test 1	Test2	Test3	Test4	Test5	Average	Minimum	Maximun
Strength #1 (Pound)	15.2	15.7	15.6	15.7	15.8	15.6	J Darminiani	ועומגווווטח
Strength #2 (Pound)	15.4	15.1	15.2	15.4	14.8	15.2		
Average Strength (Pound)			11.5.2	112.4	14.0	15.4	11.8	
Elongation #1 (Percent)	20.5	22.4	21.8	22	21.8	21.7		•
Elongation #2 (Percent)	22.3	21.4	21.9	22.5	21.1	21.9		
Average Elongation (Percent)					· · · · · · · · · · · · · · · · · · ·	21.8		26
Lube	¬˙	٩		•	•	•	•	
		_			•	Pass	Pass	
Twist S #1 (Turns per inch)	12.2	12.2	12.2	12.2	12.2	12.2	•	a
Twist S #2 (Turns per inch)	12.2	12.2	12.2	12.2	12.2	12.2		
Average Twist S (Turns per inch) Initial Twist		J 				12.2		
Wist Z#1 (Turns per inch)	8.1	8.1	8.1	8.1	8.1	8.1	•	^
Twist Z #2 (Turns per inch)	8.1	8.1	8.1	8.1	8.1	8.1		
Average Twist Z (Turns per inch) Final Twist							5.5	
(ield #1 (Yards/Pound)	4211.8	,	•	•	•	4211.8	•	•
(ield #2 (Yards/Pound)	4114.7					4114.7		
Average Yield (Yards/Pound)							3601	5200
aundry #1 (Grading Scale)	5	•	•	•	•	5	•	•
aundry #2 (Grading Scale)	5				l I	5		
verage Laundry (Grading Scale)					ļ		3	5
Ory Cleaning #1 (Grading Scale)	5		• •	,	. :	5		
Pry Cleaning #2 (Grading Scale)	5				. [5		(

file://C:\Users\Sandra_Nadeau\AppData\Local\Microsoft\Windows\Temporary Internet Fil...

Average Dry Cleaning (Grading Scale)						5	3	5
Perspiration #1 (Grading Scale)	 5		•	•	•	5	 7	
Perspiration #2 (Grading Scale)	5					5	1	
Average Perspiration (Grading Scale)						5	3	5
Color Fastness to Light,#1 (Grading Scale)	5	¬゚	•	•	٠	5		
Color Fastness to Light #2 (Grading Scale)	5	一				5	าี	
Average Color Fastness to Light (Grading Scale)						5	3.4	5

I certify that the above test were performed under my supervision and in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested. I further certify that these samples were the only samples tested from the lot of components identified above.

Joseph D. Munday
Testing Director
This Certificate of Compliance is the property of American & Efird Inc. and may not be reproduced except in it's entirety.

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